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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A fluid application device comprising:

an application nozzle including a discharge opening directed to face an object

that relatively travels with respect to the application device, said application nozzle

discharging liquid fluid from the discharge opening and applying the fluid to the

object;

a first tank storing the fluid to be applied to the object;

a second tank connected to said first tank;

feeding means for feeding the fluid from said first tank and supplying the fluid

toward said second tank;

a supply path for connecting said second tank to said application nozzle and

allowing the fluid in said second tank to be supplied to said application nozzle;

pressurizing means for sealing an inside of said second tank and applying a

prescribed air pressure to the sealed spaceinside of said second tank;

fluid level-detecting means for detecting a fluid level of the stored-fluid in said

second tank; and

maintaining means for controlling a fluid supply performed by said feeding

means based on a detection result of said fluid level-detecting means and maintaining

the fluid level at a fixed level,

wherein said application nozzle further includes:

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a main body having a tip end with the discharge opening, and a passage defined

inside the main body and tapered toward the discharge opening; and

a valve needle arranged in the main body, for opening and closing the discharge

opening, the valve needle having a stepped shape of which the diameter decreases in

stages toward the discharge opening and which corresponds in position to the

passage.

2. (Currently Amended) The fluid application device according to claim 1,

wherein an inside of said first tank is open to the atmosphere.

3. (Currently Amended) The fluid application device according to claim 1,

further comprising:

pressure-detecting means for detecting a pressure of the fluid supplied to the

application nozzle through said supply path; and

alarm means for giving a prescribed alarm when the pressure detected by said

pressure-detecting means is at a given or higher value.

4. (Original) The fluid application device according to claim 3, wherein said

pressure-detecting means includes a pressure indicator that indicates a detection

value.

5. (Currently Amended) The fluid application device according to claim 1,

wherein said application nozzle is disposed in a rod-forming section of a cigarette

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manufacturing machine, and seam paste is applied to one of side edge portions of wrapping paper when the wrapping paper travels through the rod-forming section together with garniture tape, the side edge portions of the wrapping paper forming a lap region thereof, the fluid application device further comprising:

a valve needle capable of opening/closing a discharge opening of said application nozzle, and

opening/closing means for opening/closing said valve needle according to an operation state of the cigarette manufacturing machine.

6. (Currently Amended) The fluid application device according to claim 1, wherein said application nozzle further includes:

a main body having a tip end directed to face the object;

a discharge opening formed at the tip end of the main body and discharging the fluid to be applied to the object;

a contact surface formed on the tip end of the main body, the contact surface spreading around <u>a circumference</u> of the discharge opening and being brought into contact with the object;

a discharge hole extending from the discharge opening toward inside of the main body and guiding flow of the fluid from the inside of the main body;

a corner face formed along the circumference of the discharge opening and chamfering a boundary between an inner wall of the discharge hole and the contact surface into a curved surface; and

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a coating layer formed on a surface of the main body and covering a region

from the contact surface including a corner face to the inner wall of the discharge

hole.

7. (Original) The fluid application device according to claim 6, wherein the

coating layer is formed by diamond electrodeposition coating.

8. (Original) The fluid application device according to claim 6, wherein the

main body has a polished surface on an inner wall of a passage continuing to the

discharge hole.

9. (Currently Amended) A fluid application device comprising:

an application nozzle directed to face an object that relatively travels with

respect to said nozzle and being provided with a discharge opening formed at tip end

thereof, for discharging fluid to continuously apply the fluid to the object;

a contact surface formed at the tip end of said application nozzle, said contact

surface spreading around a circumference of the discharge opening and being brought

into contact with the object;

a discharge hole formed in a main body of said application nozzle, said

discharge hole extending from the discharge opening toward an inside of said

application nozzle and guiding flow of the fluid from the inside of said application

nozzle;

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a corner face formed along the circumference of the discharge opening and

chamfering a boundary between an inner wall of said discharge hole and said contact

surface into a curved surface[[,]]; and

a coating layer formed on a surface of said application nozzle and covering a

region from said contact surface including said corner face to the inner wall of said

discharge hole,

wherein the application nozzle further includes:

a main body having a tip end with the discharge opening, and a passage defined

inside the main body and tapered toward the discharge opening; and

a valve needle arranged in the main body, for opening and closing the discharge

opening, the valve needle having a stepped shape of which the diameter decreases in

stages toward the discharge opening and which corresponds in position to the

passage.

10. (Original) The fluid application device according to claim 9, wherein said

coating layer is formed by diamond electrodeposition coating.

11. (Original) The fluid application device according to claim 9, wherein said

application nozzle has a polished surface on an inner wall of a passage connected to

said discharge hole.

12. (New) A fluid application device comprising:

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an application nozzle including a discharge opening directed to face an object

that relatively travels with respect to the application device, said application nozzle

configured to discharge liquid fluid from the discharge opening and apply the fluid to

the object;

a first tank configured to store the fluid to be applied to the object;

a second tank connected to the first tank;

a feed pump configured to feed the fluid from the first tank to the second tank;

a supply path connecting the second tank to the application nozzle and

configured to allow the fluid in the second tank to be supplied to the application

nozzle,

wherein said application nozzle includes:

a main body having a tip end directed to face the object;

a contact surface formed on the tip end of the main body, the contact surface

spreading around a circumference of the discharge opening and being brought into

contact with the object;

a discharge hole extending from the discharge opening toward an inside of the

main body and configured to guide a flow of the fluid from the inside of the main body;

and

a curved corner face formed along the circumference of the discharge opening

and curving from an inner wall of the discharge hole towards an outside of the main

body.

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(New) The fluid application device according to claim 12, wherein the 13.

application nozzle further includes:

a coating layer formed on a surface of the main body and covering a region from

the contact surface including the corner face to the inner wall of the discharge hole.

(New) The fluid application device according to claim 12, further 14.

comprising:

a pressure pump configured to seal an inside of the second tank and apply a

prescribed air pressure to the sealed inside of said second tank;

a detector configured to detect a fluid level of the fluid in the second tank; and

a controller configured to control a fluid supply performed by said feed pump

based on a detection result of said detector and to maintain the fluid level at a fixed

level.

(New) The fluid application device according to claim 12, wherein an 15.

inside of said first tank is open to the atmosphere.

The fluid application device according to claim 12, further 16. (New)

comprising:

a detector configured to detect a pressure of the fluid supplied to the

application nozzle through said supply path; and

an alarm configured to provide an alarm when the pressure detected by

detector is at a given or higher value.

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17. (New) The fluid application device according to claim 16, wherein said

detector includes a pressure indicator that indicates a visible detection value.

18. (New) The fluid application device according to claim 12 wherein said

application nozzle is disposed in a rod-forming section of a cigarette manufacturing

machine, and seam paste is applied to one side edge portion of wrapping paper when

the wrapping paper travels through the rod-forming section together with garniture

tape, the side edge portions of the wrapping paper forming a lap region thereof, the

fluid application device further comprising:

a valve needle configured to open and close a discharge opening of said

application nozzle; and

a nozzle controller configured to open and close the valve needle according to an

operation state of the cigarette manufacturing machine.

19. (New) The fluid application device according to claim 12, wherein the

coating layer comprises a diamond electro-deposited coating layer.

20. (New) The fluid application device according to claim 12, wherein the

main body has a polished surface on an inner wall of a passage continuing to the

discharge hole.